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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/577,111

04/25/2006

Hideki Imai

P/2850-136

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EXAMINER

CHEN, SHIN HON

ART UNIT

PAPER NUMBER

2431

MAIL DATE

DELIVERY MODE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/577,111	<b>Applicant(s)</b> IMAI ET AL.	
	<b>Examiner</b> SHIN-HON CHEN	<b>Art Unit</b> 2431	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period **will** apply and **will** expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply **will**, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 14 May 2010.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-50 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-34 and 39-50 is/are allowed.
- 6) ☒ Claim(s) 35-38 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                        | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Claims 1-50 have been examined.

#### ***Claim Objections***

2. Claims 35-38 are objected to because the claims are not very specific about the nature of the parameters and the relationship between the parameters. Therefore, since many parameters were not clearly defined, applicant is advised to amend the claims so that they cover the same scope as allowed claims. Furthermore, applicant is advised to be more specific about value Z received from the terminal instead of reciting a value Z as result of mask operation.

#### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 35-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Peyravian et al. U.S. Pub. No. 20040158708 (hereinafter Peyravian).

5. As per claim 35, Peyravian discloses an authentication program that runs on a server of an authentication system for mutual authentication between a terminal and a server wherein the program allows a computer to execute: a memory process to pre-store a password verification

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data H for server registration and an RSA private key (N, d) (Peyravian: figure 1: 140); and a master key generation process to yield a value T using a specific calculation formula with the input of the stored password verification data H, RSA private key (N, d) and a value Z, wherein the value Z represents a result of a mask operation process and received from the terminal (Peyravian: figure 1: 140).

6. As per claim 36, Peyravian discloses the authentication program according to claim 35. Peyravian further discloses wherein the program further allows a computer to execute a data extension process to yield the password verification data H based on a password previously-determined by the user (Peyravian: [0010]: password known by both client and server).

7. As per claim 37, Peyravian discloses the authentication program according to claim 35. Peyravian further discloses wherein the program further allows a computer to execute an RSA key generation process to yield the RSA private key (N, d) (Peyravian: [0010]).

8. As per claim 38, Peyravian discloses the authentication program according to claim 35. Peyravian further discloses wherein the program further allows a computer to execute: a verifier generation process to yield a value V2 using a specific calculation formula with the input of the value T and send V2 to the terminal; and an authentication result verification process to compare a value V1 received from the server with a value V1 obtained using a specific calculation formula with the input of the value T and, if they match, to authenticate the terminal (Peyravian:

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figure 3: step 340).

### ***Response to Arguments***

9. Applicant's arguments filed 5/14/10 have been fully considered but they are not persuasive.

Regarding applicant's remarks, applicant mainly argues that the prior art of record does not explicitly disclose the claimed parameters in generating authentication data. However, the examiner has objected to the claims to show that some of the parameters were not clearly defined. Therefore, applicant is advised to cancel or amend the claims to expedite prosecution. Applicant is welcome to contact the examiner to discuss the claims.

### ***Conclusion***

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHIN-HON CHEN whose telephone number is (571)272-3789.

The examiner can normally be reached on Monday through Friday 8:30am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William R. Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shin-Hon Chen  
Primary Examiner  
Art Unit 2431

/Shin-Hon Chen/  
Primary Examiner, Art Unit 2431